



SFP-25G-ER-I DataSheet

Cisco SFP-25G-ER-I is a 25G SFP28 ER transceiver for SMF up to 40km, -40~85°C industrial temp. Ideal for metro, carrier, and harsh environment long-range 25GbE links. RS-FEC required.

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SFP-25G-ER-I Description

SFP-25G-ER-I is a Cisco industrial-temperature SFP28 optical transceiver designed for ultra-long-range 25G Ethernet over single-mode fiber. Supporting distances up to 40 kilometers, this module operates reliably from -40°C to 85°C, making it ideal for challenging outdoor or industrial environments. With a standard LC duplex connector and 1310nm wavelength, SFP-25G-ER-I ensures robust 25GbE links for metro aggregation, carrier backbone, or remote campus connectivity. It is fully compliant with IEEE 802.3cc and SFF-8402 standards, requires RS-FEC on the host for error-free 25G transmission, and is backed by a 5-year Cisco warranty. Commonly referred to as Cisco 25G ER SFP28 Industrial, this transceiver provides the performance and reliability demanded by telecom, utility, and critical infrastructure networks.

Product Highlights

- Data Rate
- Wavelength
- Max. Distance

Model comparison

Parameter	SFP-25G-ER-I	SFP-10/25G-LR-I	SFP-10/25G-LR-S
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Form Factor	SFP28	SFP28	SFP28
Data Rate	25 Gbps	10/25 Gbps	10/25 Gbps
Wavelength	1310 nm	1310 nm	1310 nm
Fiber Type	SMF	SMF	SMF
Max. Distance	40 km	10 km	10 km
Power Consumption	1.5 W	1.3 W	1.3 W
Operating Temp.	-40~85°C (IND)	-40~85°C (IND)	0~70°C (COM)
FEC Requirement	RS-FEC required	RS-FEC required (25G)	RS-FEC required (25G)
CPRI Support	No	Yes	No
Connector	LC Duplex	LC Duplex	LC Duplex
Hot-swappable	Yes	Yes	Yes

Specification

Parameter	Value
Product Model	SFP-25G-ER-I
Form Factor	SFP28
Data Rate	25 Gbps
Wavelength	1310 nm
Interface	LC Duplex (PC/UPC)
Cable Type	Single-Mode Fiber (SMF, G.652)
Max. Distance	40 km
Transmit Power (max/min)	+6.0 dBm / -3.0 dBm
Receive Power (max/min)	-4.0 dBm / -21.0 dBm
Power Consumption	1.5 W
Operating Temperature	-40 to 85°C (-40 to 185°F)

Parameter	Value
Storage Temperature	-40 to 85°C (-40 to 185°F)
FEC Requirement	RS-FEC required
Connector	Dual LC/PC
Compliance	IEEE 802.3cc, SFF-8402, SFF-8472, RoHS 6

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